

## CNAS

Department: <b>Biochemistry</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
101	Lab	Introductory Biochemistry Laboratory			\$80.00
162	Lec	Advanced Biochemistry Laboratory			\$150.00

Department: <b>Biology</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
2	Lab	Cellular Basis of Life			\$50.00
3	Lab	Organisms in Their Environment			\$50.00
5B	Lab	Introduction to Organismal Biology			\$50.00
5C	Lab	Introduction to Evolution and Ecology			\$50.00
5LA	Lab	Introduction to Cell and Molecular Biology Lab			\$50.00
20	Lab	Dynamic Genome			\$50.00
100	Lab	General Entomology	Entomology	100	\$30.00
104	Lab	Foundations of Plant Biology	Botany and Plant Sciences	104	\$20.00
118	Lab	Molecular Phylogenetics & Evolution			\$50.00
121L	Lab	Microbiology Laboratory	Microbiology	121L	\$50.00
132	Lab	Plant Anatomy	Botany and Plant Sciences	132	\$30.00
138	Lab	Plant Development Morphology	Botany and Plant Sciences	138	\$30.00
143	Lab	Plant Physiology	Botany and Plant Sciences	143	\$30.00
151	Lab	Invertebrate Zoology			\$50.00
160L	Lab	Laboratory in Animal Behavior			\$50.00
161A	Lab	Functional Anatomy of the Vertebrates			\$50.00
161B	Lab	Functional Anatomy of the Vertebrates			\$50.00
162	Lec	Insect Behavior	Entomology	162	\$5.00
163	Lab	Evolutionary Ecology of Terrestrial Vertebrates		163	\$120.00
165	Lec	Restoration Ecology	Botany and Plant Sciences	165	\$30.00

171L	Lab	Human Anatomy & Physiology			\$50.00
173	Lab	Insect Physiology	Entomology	173	\$9.00

<b>Department:</b>	<b>Botany and Plant Sciences</b>				
<b>Course #</b>	<b>Type</b>	<b>Course Title</b>	<b>Cross-Listed Department</b>	<b>Cross-Listed Course #</b>	<b>Approved Fee</b>

31	Lab	Spring Wildflowers			\$25.00
104	Lab	Foundations of Plant Biology	Biology	104	\$20.00
132	Lab	Plant Anatomy	Biology	132	\$30.00
133	Lab	Taxonomy of Flowering Plants			\$30.00
138	Lab	Plant Development Morphology	Biology	138	\$30.00
143	Lab	Plant Physiology	Biology	143	\$30.00
146	Lab	Plant Ecology			\$30.00
165	Lec	Restoration Ecology	Biology	165	\$30.00
166	Lab	Plant Physiological Ecology			\$30.00

<b>Department:</b>	<b>Cell Biology and Neuroscience</b>				
<b>Course #</b>	<b>Type</b>	<b>Course Title</b>	<b>Cross-Listed Department</b>	<b>Cross-Listed Course #</b>	<b>Approved Fee</b>

106	Lec	Introduction to Neuroscience			\$9.00
120L	Lec	Neuroscience Laboratory	Psychology	120L	\$40.00
124	Lec	Systems Neuroscience	Psychology	124	\$9.00
169	Lec	Human Embryology			\$11.00

<b>Department:</b>	<b>Chemistry</b>				
<b>Course #</b>	<b>Type</b>	<b>Course Title</b>	<b>Cross-Listed Department</b>	<b>Cross-Listed Course #</b>	<b>Approved Fee</b>

1HLA	Lab	Honors General Chemistry			\$46.00
1HLB	Lab	Honors General Chemistry			\$46.00
1HLC	Lab	Honors General Chemistry			\$46.00
1LA	Lab	General Chemistry			\$46.00
1LB	Lab	General Chemistry			\$46.00
1LC	Lab	General Chemistry			\$46.00
5	Lab	Quantitative Analysis			\$46.00
111	Lab	Physical Chemistry Laboratory			\$46.00
112A	Lab	Organic Chemistry			\$46.00
112B	Lab	Organic Chemistry			\$46.00

112C	Lab	Organic Chemistry			\$46.00
125	Lab	Instrumental Methods			\$46.00
140	Lab	Environmental Chemistry Laboratory			\$46.00
166	Lab	Advanced Structural and Synthetic Methods			\$46.00

Department: <b>Entomology</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
10	Lec	Natural History of Insects			\$5.00
100	Lab	General Entomology	Biology	100	\$30.00
109	Lab	Field Entomology			\$75.00
114	Lab	Aquatic Insects			\$100.00
124	Lab	Agricultural Entomology			\$100.00
126	Lec	Medical and Veterinary Entomology			\$33.00
162	Lec	Insect Behavior	Biology	162	\$5.00
173	Lab	Insect Physiology	Biology	173	\$9.00

Department: <b>Genetics</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
272	Lab	Introduction to Imaging Bioinstrumentation	Electrical Engineering	272	\$30.00
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	Electrical Engineering	273	\$30.00
274	Lab	Introduction to Medical Imaging & Analysis	Electrical Engineering	274	\$30.00

Department: <b>Mathematics</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
2	Lec	Math Support Practicum			\$3.00
4	Lec	Introduction to College Mathematics for Business and the Social Sciences			\$3.00
5	Lec	Precalculus			\$3.00
008A	Lec	Intro to Coll Math for Sciences			\$3.00
008B	Lec	Intro to Coll Math for Sciences			\$6.00
009A	Lec	First Year Calculus			\$6.00

009B	Lec	First Year Calculus			\$6.00
009C	Lec	First Year Calculus			\$6.00
010A	Lec	Calculus - Several Variables			\$3.00
010B	Lec	Calculus - Several Variables			\$3.00
11	Lec	Introduction to Discrete Structures	Computer Science	11	\$3.00
15	Lec	Contemporary Mathematics for the Humanities, Arts, and Social Sciences			\$3.00
22	Lec	Calculus for Business			\$6.00
46	Lec	Ordinary Differential Eq.			\$6.00

Department: <b>Microbiology</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
121L	Lab	Microbiology Laboratory	Biology	121L	\$50.00
125	Lab	Experimental Microbiology			\$50.00

Department: <b>Physics</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
002A	Lec	General Physics			\$5.00
002B	Lec	General Physics			\$5.00
002C	Lec	General Physics			\$5.00
2LA	Lab	General Physics Laboratory			\$25.00
2LB	Lab	General Physics Laboratory			\$25.00
2LC	Lab	General Physics Laboratory			\$25.00
8	Lec	Color and Sound: Dimensions in Communication			\$5.00
10	Lec	How Things Work			\$5.00
16	Lec	Principles of Physics			\$5.00
40A	Lab	General Physics			\$25.00
40B	Lab	General Physics			\$25.00
40C	Lab	General Physics			\$25.00
41A	Lab	Intro Physics for Physics Major			\$50.00
41B	Lab	Intro Physics for Physics Major			\$50.00
41C	Lab	Intro Physics for Physics Major			\$50.00
139L	Lab	Electronics for Scientists			\$45.00
142L	Lab	Advanced Physics Laboratory			\$150.00

## CHASS

Department: <b>Art Department</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
1	Lec	Beginning Drawing and Design			\$20.00
2	Lec	Beginning Painting and Design			\$40.00
3	Lec	Intro to Photo Process			\$50.00
4	Lec	Introduction to Moving Images	Media & Cultural Studies	4	\$60.00
5	Lec	Beginning Sculpture and 3-D Design			\$75.00
9	Lec	Introductory Web-Based Art: Site Creation and Navigation			\$50.00
65	Lec	Introduction to Digital Painting and Drawing: Painting Without a Trace			\$65.00
66	Lec	Introduction to 3-D Digital Modeling	Computer Science	66	\$40.00
67	Lec	Three-Dimensional Digital Modeling and Animation	Computer Science	67	\$65.00
70 E-Z	Lec	Digital Imaging Software for the Visual Arts			\$50.00
71 E-Z	Lec	Photographic Materials & Processes			\$50.00
75 E-Z	Wrk	Sculpture Materials & Processes			\$65.00
102	Lec	Intermediate Drawing			\$20.00
103	Lec	Advanced Drawing			\$20.00
104	Lec	Life Drawing			\$40.00
110	Lec	Intermediate Painting			\$40.00
111	Lec	Advanced Painting			\$40.00
112 E-Z	Wrk	Painting Materials and Processes			\$50.00
115	Lec	Intermediate Sculpture			\$75.00
125	Lec	Sculpture Hybrid: Furniture, Architecture, Decoration (FAD)			\$65.00
131	Lec	Intermediate Photography & Digital Technology	Media & Cultural Studies	131	\$75.00
134	Lec	Mixed Media			\$65.00
136	Lec	Installation & Site-Specific Art	Media & Cultural Studies	136	\$65.00
137	Lec	Advanced Sculpture			\$65.00

139	Lec	Intermediate Web-Based Art: Animation, Audio, and Interactivity			\$40.00
140	Lec	Intermediate Analog Photography			\$60.00
143	Lec	Advanced Digital Imaging Technology			\$65.00
145	Lec	Advanced Photography Workshop			\$60.00
146 E-Z	Lec	Topics in Advanced Photography			\$60.00
150	Lec	Intermediate Moving Images	Media & Cultural Studies	150	\$50.00
155	Lec	Advanced Moving Images			\$50.00
165	Lec	Intermediate Digital Painting and Drawing: Intermediate Painting without a Trace			\$65.00
167	Lec	Intermediate Digital Media: Web Authoring			\$35.00
169 E-Z	Lec	Digital Imaging Intermediate Software			\$35.00
171	Lec	Intermediate & Advanced Sculpture/Digital			\$65.00
175	Lec	Advanced Digital Workshop			\$65.00

**Department: Art History**

Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
136	Lec	History of Video Art	Media & Cultural Studies	137	\$10.00
137	Lec	History of Experimental Film	Media & Cultural Studies	138	\$20.00

**Department: Media and Cultural Studies**

Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
4	Lec	Introduction to Moving Images	Art	4	\$60.00
131	Lec	Intermediate Photography & Digital Technology	Art	131	\$75.00
136	Lec	Installation & Site-Specific Art	Art	136	\$65.00
137	Lec	History of Video Art	Art History	136	\$10.00
138	Lec	History of Experimental Film	Art History	137	\$20.00
150	Lec	Intermediate Moving Images	Art	150	\$50.00

Department: <b>Music</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
080 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings			\$250.00
081 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments			\$250.00
0180 (E-Z)	Stu	Private Instruction: Voice, Keyboard, and Strings			\$500.00
0181 (E-Z)	Stu	Private Instruction: Brass, Woodwinds, Percussion, and Other Instruments			\$500.00

Department: <b>Psychology</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
120L	Lec	Neuroscience Laboratory	Cell Biology and Neuroscience	120L	\$40.00
124	Lec	Systems Neuroscience	Cell Biology and Neuroscience	124	\$9.00

Department: <b>Theatre</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
142	Lec	Costume Construction			\$61.00
155	Lec	Intro to Digital Film Production			\$98.00
156A	Lec	Digital Film Production			\$98.00
156B	Lec	Digital Film Production			\$98.00
157	Lec	Introduction to Film Editing			\$71.00

## BCOE

Department: <b>Bioengineering</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
010	Lec	Overview of Bioengineering			\$50.00
130L	Lab	Bioinstrumentation Lab			\$50.00
155	Lab	Biotechnology Lab			\$100.00
175A	Lec	Senior Design			\$100.00

175B      Lec      Senior Design      \$100.00

Department: <b>Chemical and Environmental Engineering</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
10	Lab	Intro To Chem & Environ Engrng			\$30.00
11	Lab	Intro to Bioengineering			\$30.00
125	Lab	Analys Meths For Chem & Env Engrs			\$50.00

Department: <b>Chemical Engineering</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
124L	Lab	Biochemical Engr Lab			\$50.00
160A	Lab	Chem/Env Engineering Lab	Environmental Engineering	160A	\$50.00
160B	Lab	Chemical Engineering Lab			\$50.00
160C	Lab	Chemical Engineering Lab			\$50.00
161	Lab	Nanotechnology Processing Lab			\$50.00
175A	Lab	Chemical Process Design			\$50.00

Department: <b>Computer Science</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
5	Lab	Introduction to Computer Programming			\$30.00
6	Lab	Effective Use of the World Wide Web			\$30.00
8	Lab	Introduction to Computing			\$30.00
10	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering I			\$30.00
11	Lec	Introduction to Discrete Structures	Mathematics	11	\$3.00
12	Lab	Introduction to Computer Science for Science, Mathematics, and Engineering II			\$30.00
13	Lab	Introduction to Computer Science for Engineering Majors			\$30.00
30	Lab	Introduction to Computational Science and Engineering			\$30.00
66	Lec	Introduction to 3-D Digital Modeling	Art	66	\$40.00
67	Lec	3-D Dimensional Digital Modeling & Animation	Art	67	\$65.00

120A	Lab	Logic Design	Electrical Engineering	120A	\$30.00
120B	Lab	Introduction to Embedded Systems	Electrical Engineering	120B	\$30.00
122A	Lab	Intermediate Embedded and Real-Time Systems			\$30.00
122B	Lab	Advanced Embedded and Real-Time Systems			\$30.00
130	Lab	Computer Graphics			\$30.00
133	Lab	Computational Geometry			\$30.00
134	Lab	Video Game and Creation and Design			\$30.00
152	Lab	Compiler Design			\$30.00
153	Lab	Design of Operating Systems			\$30.00
160	Lab	Concurrent Programming and Parallel Systems			\$30.00
161L	Lec	Design and Architecture of Computer Systems			\$30.00
162	Lab	Computer Architecture			\$30.00
164	Lab	Computer Networks			\$30.00
165	Lab	Computer Security			\$30.00
166	Lab	Database Management Systems			\$30.00
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	Electrical Engineering	168	\$30.00
177	Lab	Modeling and Simulation			\$30.00
179 E-Z	Lab	Project in Computer Science			\$30.00
180	Lab	Introduction to Software Engineering			\$30.00
181	Lab	Principles of Programming Languages			\$30.00
183	Lab	UNIX System Administration			\$30.00

Department: **Electrical Engineering**

Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
001B	Lab	Engineering Circuit Analysis II			\$30.00
01LA	Lab	Engineering Circuit Analysis I Laboratory			\$30.00
2	Lab	Electrical and Electronic Circuits			\$30.00
100A	Lab	Electronic Circuits			\$30.00
100B	Lab	Electronic Circuits			\$30.00
105	Lab	Modeling and Simulation of Dynamic Systems			\$30.00
110B	Lab	Signals and Systems			\$30.00

115	Lab	Introduction to Communication Systems			\$30.00
120A	Lab	Logic Design	Computer Sciences	120A	\$30.00
120B	Lab	Introduction to Embedded Systems	Computer Sciences	120B	\$30.00
123	Lab	Power Electronics			\$30.00
128	Lab	Data Acquisition, Instrumentation, and Process Control			\$30.00
132	Lab	Automatic Control			\$30.00
134	Lab	Digital Integrated Circuit Layout and Design			\$30.00
135	Lab	Analog Integrated Circuit Layout and Design			\$30.00
136	Lab	Semiconductor Device Processing			\$50.00
140	Lab	Computer Visualization			\$30.00
141	Lab	Digital Signal Processing			\$30.00
144	Lab	Introduction to Robotics			\$30.00
146	Lab	Computer Vision			\$30.00
151	Lab	Introduction to Digital Control			\$30.00
152	Lab	Image Processing			\$30.00
153	Lab	Electric Drives			\$30.00
165	Lab	Design for Reliability of Integrated Circuits and Systems			\$30.00
168	Lab	Introduction to Very Large Scale Integration (VLSI) Design	Computer Science	168	\$30.00
204	Lab	Advanced Electromagnetics			\$30.00
206	Lab	Nanoscale Characterization Techniques	Materials Science and Engineering	227	\$30.00
229	Lab	Video Processing & Communication			\$30.00
272	Lab	Introduction to Imaging Bioinstrumentation	Genetics	272	\$30.00
273	Lab	Live Imaging & Analysis of Cellular and Molecular Behaviors	Genetics	273	\$30.00
274	Lab	Introduction to Medical Imaging & Analysis	Genetics	274	\$30.00
275	Lab	Project in Video Bioinformatics			\$30.00

Department: <b>Engineering (ENGR)</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
180W	Lec	Technical Communications			\$30.00

Department: <b>Environmental Engineering</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
160A	Lab	Chem/Env Engineering Lab	Chemical Engineering	160A	\$50.00
160B	Lab	Environmental Engineering Lab			\$50.00
160C	Lab	Environmental Engineering Lab			\$50.00
175A	Lab	Senior Design Project			\$50.00

Department: <b>Materials Science and Engineering</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
227	Lab	Nanoscale Characterization Techniques	Electrical Engineering	206	\$30.00

Department: <b>Mechanical Engineering</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
1A	Lab	Introduction to Mechanical Engineering			\$30.00
1B	Lab	Introduction to Mechanical Engineering			\$30.00
1C	Lab	Introduction to Mechanical Engineering			\$30.00
18	Lab	Introduction to Engineering Computation			\$30.00
131	Lab	Design of Mechanisms			\$30.00
133	Lab	Introduction to Mechatronics			\$30.00
156	Lab	Mechanical Behavior of Materials			\$30.00
170A	Lab	Experimental Techniques			\$30.00
170B	Lab	Experimental Techniques			\$30.00
175B	Lab	Mechanical Engineering Design			\$30.00
175C	Lab	Mechanical Engineering Design			\$30.00
180	Lab	Optics and Lasers in Engineering			\$30.00

## SOBA

Department: <b>Management</b>					
Course #	Type	Course Title	Cross-Listed Department	Cross-Listed Course #	Approved Fee
404	Lec	Com, Leadership, Teams, and Ethics			\$165.00